



Royal Commission
into National Natural
Disaster Arrangements

Submission Form

Please complete this form if you would like to provide input or comments about coordination, preparedness for, response to and recovery from the 2019-20 'Black Summer' bushfires.

Personal and Background Information

1. **Full Name** **Deborah Pergolotti**
2. **Email** [REDACTED]
3. **Mobile/Telephone** [REDACTED]
4. **What is your preferred method of contact if we want to follow up with you?**

email

5. **The Commission would like to understand the views of community groups based on their respective experiences and background.**

- a. Please select Option 1 if you are providing input and comments primarily based on your personal situation.
- b. Please select Option 2 if you are providing input and comments primarily based on your professional knowledge, qualifications or experience, or on behalf of a group or organisation

Option 1: Based on your personal situation, please complete the following.

- a. What was your personal situation in relation to the 2019-20 Bushfires? Please choose all that apply.
 - I was not living in an area affected by bushfire
 - I lived in an area affected by bushfires but was not evacuated, and didn't suffer personal or financial loss
 - I lived in an area affected by bushfires and was evacuated, but didn't suffer personal or financial loss

- I lived in an area affected by bushfires and was evacuated, and I suffered personal or financial loss
- I was part of the emergency response as a fire fighter on the ground
- I was part of the emergency response as an aerial fire fighter
- I was part of the emergency response as health professional
- I was part of the emergency response as an Australian Defence Force member
- I was part of the emergency response as a Commonwealth or State government employee
- I assisted the emergency response as a community support volunteer
- I assisted the emergency recovery (i.e. after the fire event) as a community support volunteer
- Other

b. Where do you live? Please provide your Local Government Area, town name and post code.

Local Government Area

Choose an item.

Town name

Post code

Option 2: Based on your knowledge, qualifications or experience, or your role representing a group or organisation, what is your area of expertise? Please choose all that apply.

- Emergency/disaster response and/or management
 - Environment/land management
 - Land use, planning, building standards
 - Impacts of changes in climatic conditions
 - Wildlife conservation
 - Traditional land and fire management practices of Indigenous Australians
 - Community welfare
 - Other
-

Input / Comments

6. In your experience, what areas of the bushfire emergency response worked well?

As an observer, the bravery and dedication of firefighters is beyond comprehension. So many of these were volunteers which is beyond what could possibly be expected of anyone.

I also thought it was a marvellous use of the military to be assisting with the rescue of wildlife.

7. In your experience, what areas of the bushfire emergency response didn't work well?

Our submission has focused on what would have changed these fires from 'normal' to highly abnormal so that those things could be corrected for the future. We should not be examining how to adjust to fires like this in future but rather looking at removing contributors that were involved this time. This situation should NEVER be allowed to happen again.

8. In your experience, what needs to change to improve arrangements for preparation, mitigation, response and recovery coordination for national natural disaster arrangements in Australia?

My view is that we should look at the causes of these disasters growing ever larger and challenge them - rather than simply accepting that they are more severe so let's just 'learn to live with it'.

I accept it will be viewed as a controversial statement but I must say it: If I had to narrow down to one thing that has the most far reaching impact in the severity of these fires, it would be my personal belief that the toxins used in weather modification programs (aka, SRM, SAI, geoengineering) operating in Australia right now need to be cancelled immediately. It is an untested and unpredictable technology which is turning natural disasters into UNnatural tragedies, causing unacceptable and irreversible losses as well as putting more pressure on taxpayers to pay for the ever increasing costs of response. Please see our submission for an explanation and references.

9. Is there anything else you would like to tell the Royal Commission?

please our submission which includes references

10. Do you intend to provide supporting material?

- Yes
 No

If you are providing any supporting material, please include it with your Submission if possible. If you need to send it separately (e.g. if you make a Submission over the phone), please ensure supporting material can be clearly identified as relating to your Submission by including your name or other identifier so that it can be considered with your Submission.

11. Do you agree to your submission being published? (Mandatory)

- Yes, I agree to my submission being published in my name
 Yes I agree to my submission being published anonymously
 No I don't agree to my submission being published

Once you have completed this form, email it to rcnda.submissions@royalcommission.gov.au or print the form and post it to the Royal Commission at:

National Natural Disaster Royal Commission
Locked Bag 2000
Manuka ACT 2603



Submission to the Royal Commission into Natural Disaster Arrangements
(aka, the bushfires inquiry)

This submission is both a personal endeavour and on behalf of the conservation organisation Frog Safe, Inc. While myself and our group were outside of the bushfire areas, our group suffered financial losses. The public was generous in their support of firefighters and southern wildlife groups but those of us outside those areas lost out. I also wish to point out that the information I am providing to this royal commission is what I fully believe to be true. I take my responsibilities as an active custodian of this planet seriously and have done so for over 45 years. (The Australian government has awarded me twice for my current work with amphibian health.) I have tried to include references/sources for all the topics covered in this submission -but that is not always possible when a circumstance has not yet been independently studied. The contents of this submission address several of the terms of reference.

Contents:

- * static issues
- * systemic abuse of limited water resources
- * political undermining of ecosystem services (nature)
- * climate change
- * can nature and wildlife ever recover from this disaster?
- * recommendations
- * sources/references

I don't believe the horrific situation our country experienced this summer can be blamed on any single cause - such as insufficient hazard reduction burning - but rather a sequence of bad events which created "the perfect storm". My personal belief is that the government's use of the highly controversial and **non-researched** practice of stratospheric aerosol injection is probably what catapulted these fires to the next level.

Static issues:

There are basic well-known facts which have always been present:

- * Australia is the world's driest continent
- * much of our native vegetation (e.g., eucalypts) contains oils which are flammable
- * most of the country's access to water is via aquifers
- * rainfall over Australia is curtailed by a periodic positive Indian Ocean Dipole
- * El Nino also reduces rainfall over eastern Australia and creates higher temperatures

Australia has always had bushfires and fires under the conditions above would be "natural". But the fires this summer were vastly different than anything ever seen and the level of destruction was the manifestation of hell. (Just reviewing some of the references for this submission was distressing.)

I believe that bad policy on top of natural conditions made these conflagrations UNnatural. These events were enhanced because of **systemic abuse of limited water resources** and **deliberate political undermining of ecosystem services (nature)**.

Systemic abuse of limited water resources:

1) The rights to at least ten percent of Australian water supplies have been sold off to foreign and private corporations [1] [2] [3] [4] [5] who are hoarding water for their own uses (e.g., Cubbie Station) and denying it to Australian farmers and residents - but it is also being denied to environmental flows (e.g., Murray Darling system) and aquifer replenishment. Water is being auctioned off and priced to be totally out of reach for Australians including the people who are trying to grow our food [8]. Any denial of water to Australians violates the Constitution [6], and needs to be corrected. Foreign ownership of Australian water should be made illegal and existing 'permits' bought back. While ten percent of surface water might seem trivial, I believe it was the town of Glen Innes in northern NSW that ran out of water while fighting the fires (two people died in that fire) and the town had to truck it in [ABC radio interview]. That 10% would have made a difference.

2) The next "abuse" is the states allowing mining companies unlimited use of aquifer and surface waters and that qualifies as both gross systemic abuse and political undermining. This massive scale of mining water extraction has led to a **dropping of aquifer levels** and that is causing towns to lose water [7] [24], farmers to lose their water supplies even before the drought started [8] [9] [10], and could lead to overly stressed forests from lack of underground water supply as well as surface drought. A much lower water table will make vast areas of landscape far more susceptible to stronger burns than ever before. This summer, even the rainforest at Terrania Creek (northern NSW) burned for weeks and that is not supposed to happen. This abuse is also linked to the removal of surface water by private parties, as environmental flows of surface water is how aquifers slowly replenish over time. That replenishment cycle is now broken according to the government's own report by DAFF. [11]

The government relishes the income it receives from mining but how much 'income' are we really getting? - And does it justify the level of environmental destruction we are seeing? The government gives many billions of dollars in subsidies, tax concessions, and infrastructure support to mining companies [37] [38] [39]. Plus we have relinquished our manufacturing base and, between the bushfires and the pandemic, our tourism has now been destroyed too, forcing this country down one single road to finance our economy: mining. (How much of this is because of Australia's participation in the Lima Accord?) It is time to rebuild the industries we've lost so that mining and its unconscionable waste of our precious water are scaled back and aquifers replenished.

Political undermining of ecosystem services (nature):

There are many ways that government has 'pulled the rug out' from under nature but they are outside the terms of this inquiry. Only two that are directly related are described here.

1) While vegetation clearing might not be an obvious factor in this summer's outrageous bushfires, it is. Deforestation causes desertification [35]. At least in Queensland, deforestation rates have soared back to "the bad old days" [40] [41] [42] and forests in NSW that were not burned are still being logged despite being critical habitat for koalas [34] and other endangered species. After the bushfires, the states should have put an immediate moratorium on all projects which remove vegetation until proper surveys could be conducted of all the areas that were burnt - but they didn't bother ("business as usual" as opposed to the precautionary principle).

2) The point is a personal representation only: that the worst contributor to the severity of this summer's fires could have been the Stratospheric Aerosol Injection (SAI, aka, SRM, geoengineering, weather modification) programs. The government is not willing to openly discuss its participation in, funding for, or acknowledge that "others" are allowed to spray our skies - but the fact remains that Australian authorities definitely engage geoengineering processes [17] [18] [19] [20] [21] [22] [23] [28] [53]. The companies that do the work (such as The Rain Corporation and Weather Modification, Inc.) are very happy to boast having Australian authorities as their clients [26] [27]. These projects are often discussed in the media as 'potential future plans' but are already in progress and are conducted in plain view of the public. NSW even has a law to allow cloud seeding processes [25]. As more of the public learns that this is happening and starts to talk about it, the media attempts to fool people by mocking and dismissing it as a 'conspiracy theory' [16]. That seems to be the standard process: mock/ostracise those who tell the truth but eventually it comes out as fact like we've seen before with cigarettes and asbestos.

The SAI/SRM process uses an assortment of metal nanoparticles and aerosols to spray the sky to reduce sunlight but these drift down to the surface within days and can coat broad landscapes. The full extent of damage this process does to biodiversity and human health has not been independently studied (so it should have never been approved in the first place) but it would logically be a threat to bees/pollinators since some nanoparticles have been patented and used to kill insects [32].

Barium and aluminium - both of which are flammable and explosive - are frequently used [12]. It can aggravate the situation if hazard reduction burning has not taken place since a much thicker layer of combustible leaf litter results - but even if the hazard reduction burning did occur, the trees will still be coated with nanoparticles, especially during drought. Video footage during these fires showed unusual fire behaviour which was verified by career fire fighters including 50+ metre high walls of fire and explosions [49]. (Those and another common component of SAI, sulphur/sulphuric acid, also cause severe respiratory distress and cancer [12] - refer to Melbourne's supposed "thunderstorm asthma" event in 2016 [13] where repeated SAI was reported the week before by several Melbournians on social media.)

SAI is an experimental technology with many scientists publishing papers in peer reviewed journals warning about the adverse impacts seen so far (some of these papers are referenced at the end of this document). Perhaps the promoters of this technology never bothered to fully inform Australian decision makers that there are many serious adverse consequences involved in the use of this completely untested technology. But the impacts of spraying flammables over our landscapes seems pretty apparent now after the fact and should be immediately and permanently STOPPED.

A word (or two) about 'climate change':

Climate change seems to be the 'flavour of the month', and some of the terms of reference for this royal commission specifically mention it. It is allegedly the reason why the dangerous SAI/SRM technology is being justified for use despite its severe downsides [12] [30] [31] [32]. However, the 'climate change snowball rolling down the hill' has now grown too big to stop and is absorbing everything in its path. Those scientists (and even environmentalists) who disagree with 'global warming' and support instead solar forcing, grand solar minimum [48], and/or pole reversal are accused of being 'climate deniers' and ostracised. In my opinion, governments have been deluded into carbon reduction initiatives despite the essential need for carbon to grow vegetation and that

vegetation provides oxygen for all life! Media coverage is biased towards the narrative of global warming while downplaying the realities of increasing snow volumes, longer snow seasons, snow occurring in odd places such as Hawaii [50] and the Middle East [51], crop failures [52], and plentiful cold records being broken. It might be convenient to blame the heatwaves and droughts on a planetary process we allegedly can't control (or can control if we tax it) but geoengineering misused can create heatwaves and drought as well - both deliberately and unintentionally [20]. Even NASA acknowledges that we are heading into the next grand solar minimum and has already named it the Eddy minimum [15]. The insurance industry is also onto it [29]. Global warming was an issue two or three decades ago but we are heading the other direction. Solar activity has repeating cycles with grand solar minima occurring every couple hundred years. Reading up on the Maunder minimum will give you a good indication of what we can expect. We don't need SAI to correct a cooling period and SAI is yet another highly toxic pollutant that has no place on a planet which cherishes life and the wonder of diversity.

Can nature and wildlife ever recover from this disaster?

That depends on whether Australia prefers to be a functional 'corporatocracy' or decides to learn from the many mistakes that have been made and starts restoring living systems back to supportive capacity for the benefit of all. I am making several recommendations here, some of which might have more subtle connections to the severity of this past summer's bushfires but are meant to address the 'bigger picture'. This tragedy was built on several 'bad actors' so many changes will be needed to prevent something on this scale ever happening again. Obviously some things can't be changed such as El Nino, the Indian Ocean Dipole, or the flammability of some native tree species - so we must change those things we can. The process of healing and restoration must be as monumental as the extent of the death and destruction that occurred.

Recommendations:

- 1) There needs to be an immediate moratorium on all vegetation removal nationwide until point 2 below is finished. This is not only important for biodiversity but also to stop further desertification.
- 2) There must be extensive and thorough surveys of all biodiversity soonest to learn the status of what remains. Australian authorities have generally been very reluctant to allow hands-on intervention to assist species' recovery and that includes an attitude against captive breeding for conservation purposes (at least it has for amphibians). But we are now in uncharted territory and we all need to have an open mind about all the best tools possible for ensuring the survival of biodiversity from koalas right down the line to invertebrates and insects (particularly pollinators). Captive breeding must be involved for as many species as possible because this might be the only tool that preserves many species in the long run. Just replanting trees will take too long to restore supportive ecosystems for fauna and invertebrates. States might make their own rules on wildlife matters but all wildlife is the property of the Crown. Some leadership and support from the Commonwealth on the matter of wildlife preservation is important. States need to be encouraged to allow captive breeding and setup/allow longer-term temporary holding facilities until individual sites are ready to support reintroductions. Over a million people have lost their jobs because of 'the pathogen' - give them jobs and training urgently to survey bushfire areas, rescue/rehab wildlife and feed unhurt survivors *in situ*, plant trees, build and install nest boxes and beehives, build facilities to house captive bred and rescued populations. (How can government pay them? Easy: just cancel one of the new jets or submarines the government has ordered.)

- 3) A large percentage of these fires were deliberately lit [33]. Why on earth would a public who is seeing the enormous scale of destruction and loss of human life actually feed the monster? Penalties for arson - including fires in the bush - need to be prohibitive. Children setting fires should not receive a mere 'slap on the wrist' but appropriate punishment (planting several hundred trees perhaps) and long-term counselling (which might need to involve their parents). Additionally, there needs to be a national awareness campaign addressing drivers throwing lit cigarettes out their windows. Many fires up here in the QLD tropics have started that way. I, personally, almost had a fire started in my car when a driver in front of me threw his lit cigarette out his window and it bounced off my driver's door window (usually fully open, thankfully it was half up that time).
- 4) Foreign entities (including multinationals with branches here) can not be allowed to 'own' our water and existing 'permits' need to be returned.
- 5) Mining companies need to meter and pay for the water they use and the laws changed so that residents, farmers, and environmental flows are given first preference - not last preference. Aquifers need to be maintained and not allowed to drop below a scientifically-determined level. If levels drop below that, mining usage is cancelled until the aquifer is refreshed.
- 6) Cultural burns done by Aboriginal people [43] [44] [47] seemed to prevent extensive damage when the fires reached properties that had used the traditional process [45] [46]. This should be adopted as the gold standard for reducing fuel loads rather than the 'hot' and too frequent regime currently used which is actually causing negative changes in the species composition in forests (e.g., promotes panicum grass which prevents 'cool' burns).
- 7) One of the reasons why hazard reduction burns are done here in the far north is to prevent rainforest from taking over eucalypt forests. Since eucalypt forests are flammable and we have already destroyed SO much rainforest around the world, it is time to change this policy. Aside from very specific pockets of dry forest that are needed to support other species (e.g., koalas, Mahogany Gliders, etc.) we should encourage rainforests to expand. This would make forests less flammable and better support the hydrological cycle (the transpiration from rainforests encourages more rainfall).
- 8) Even if nothing else from my recommendations is considered, **all** weather modification projects in Australia need to be cancelled immediately and permanently.

Thank you for your time to read and seriously consider our submission. It is in the spirit of healing that we have submitted it.

Sincerely,

Deborah Pergolotti
 President
 Frog Safe, Inc.
 Mission Beach, Qld

Sources:

- 1) <https://www.abc.net.au/news/rural/2019-03-25/foreign-owned-water-entitlement-register-reveals-key-countries/10923384>

- 2) John Frydenberg comments preceding his report on foreign ownership of water: *"The Murray-Darling Basin holds just over half of all water entitlements on issue in Australia. Foreign ownership of water entitlements within the Murray-Darling Basin is 9.4 per cent, slightly below the level of foreign ownership of entitlements at a national level."*
<https://joshfrydenberg.com.au/latest-news/register-of-foreign-ownership-of-water-report/>
- 3) <https://theconversation.com/dams-are-being-built-but-they-are-private-australia-institute-124807>
- 4) <https://www.afr.com/politics/federal/water-efficiency-programs-bankrolling-private-dams-20191008-p52ymq>
- 5) <https://www.abc.net.au/news/2019-07-08/taxpayers-helping-fund-murray-darling-basin-expansion/11279468>
- 6) http://classic.austlii.edu.au/au/legis/cth/consol_act/coaca430/s100.html
- 7) <https://www.thefifthestate.com.au/articles/day-zero-might-mean-tough-choices-for-90-towns-looking-at-new-locations/>
- 8) <https://www.abc.net.au/news/2019-11-05/maules-creek-coal-mine-under-investigation-again-over-water-use/11658718>
- 9) <https://www.abc.net.au/news/2018-09-10/investigation-into-water-usage-following-coal-mine-concerns/10219410>
- 10) <https://nwprotectionadvocacy.com/whitehaven-coal-attempts-to-hose-down-lock-the-gate-water-claims/>
- 11) excerpt from Foreword: *"The model water balance indicates that the current rate of water use exceeds the rate of groundwater recharge. Groundwater levels will continue to fall until this is reversed."*
 from the Executive Summary: *"The model water balance suggests that the Basin is not in equilibrium, with outflows about 70% greater than inflows over the calibration period of 1965-2000. Extraction from water bores and petroleum wells is more than 80% greater than the recharge rate."*
 DAFF report on the Great Artesian Basin: <http://data.daff.gov.au/brs/brsShop/data/gabtransient1.pdf>
- 12) published paper on the health impacts of aerosols used in stratospheric injection:
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4717532/>
- 13) <https://www.abc.net.au/news/2016-11-29/thunderstorm-asthma-eighth-person-dies-from-melbourne/8074776>
- 14) <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2019GL084210>
"Wetting over Australia is enhanced and prevented by MSB and SAI, respectively"
- 15) https://en.wikipedia.org/wiki/Solar_minimum#Grand_solar_minima_and_maxima
- 16) <https://www.cairnspost.com.au/conspiracists-say-lasers-and-exploding-smart-meters-used-to-start-bushfires-to-make-way-for-a-new-train-network/news-story/24f154722befb3b3c20b748e3336ea19>
- 17) <https://csiropedia.csiro.au/Cloud-seeding/>
- 18) <http://researcharchive.vuw.ac.nz/xmlui/bitstream/handle/10063/4554/thesis.pdf?sequence=2>
- 19) <https://www.technologyreview.com/s/608312/this-scientist-is-taking-the-next-step-in-geoengineering/>
- 20) from: <https://www.theguardian.com/environment/2017/mar/24/us-scientists-launch-worlds-biggest-solar-geoengineering-study>
 Kevin Trenberth, a lead author for the UN's intergovernmental panel on climate change, said that despair at sluggish climate action, and the rise of Donald Trump were feeding the current tech trend. *"But solar geoengineering is not the answer," he said. "Cutting incoming solar radiation affects the weather and hydrological cycle. It promotes drought. It destabilizes things and could cause wars. The side effects are many and our models are just not good enough to predict the outcomes"*
- 21) <https://agupubs.onlinelibrary.wiley.com/doi/pdf/10.1029/2017JD027978> (the Australian government provided funding for this project)

- 22) <https://www.abc.net.au/news/2018-06-04/geoengineering-the-risky-fix-climate-change/9822022>
- 23) <https://www.theguardian.com/environment/graphic/2012/jul/17/geoengineering-world-map?intcmp=239> (note: this map does not show SAI for Australia but plenty of evidence exists)
- 24) <https://www.willyweather.com.au/news/11659/drought+takes+hold+around+gloucester+with+ferocity+never+seen+by+locals+before.html>
- 25) <https://www.legislation.nsw.gov.au/#/view/act/2004/19/full>
- 26) <http://www.weathermodification.com/projects.php?id=4>
- 27) <https://www.australianrain.com.au/trials-overview> (an Australian company who conducted trials in SA and QLD)
- 28) <https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2019GL084210> (effects of SAI on drylands)
- 29) <https://www.actuaries.asn.au/Library/Events/SUM/2013/Sum2013PaperBrentWalker.pdf>
- 30) <https://www.theatlantic.com/science/archive/2018/08/solar-geo-engineering-cant-save-the-worlds-crops/567017/>
It's not only bad for crops, it is bad for all vegetation on the planet and that vegetation provides our oxygen!
- 31) <https://www.theguardian.com/sustainable-business/2015/may/15/geoengineering-climate-change-greenhouse-gases>
- 32) <https://link.springer.com/article/10.1007/s11356-018-1850-4>
This interesting paper proves that nanoparticles have devastating impacts on insects.
- 33) <https://www.wbtw.com/news/world/24-charged-accused-of-deliberately-lit-bush-fires-in-australia-death-toll-reaches-at-least-25/>
- 34) <https://www.smh.com.au/national/nsw/mayor-wants-logging-halted-in-koala-stronghold-until-bushfires-over-20191202-p53fzz.html>
- 35) <https://greentumble.com/causes-and-effects-of-desertification/>
- 36) <http://www.un-documents.net/s7r3362.htm>
the full text of the Lima Accord
- 37) <https://www.theguardian.com/environment/2019/aug/29/adani-mine-would-be-unviable-without-44bn-in-subsidies-report-finds>
- 38) <https://www.abc.net.au/news/2014-06-24/mining-industry-receives-billions-of-dollars-in-state-subsidies/5545714>
- 39) <https://www.marketforces.org.au/campaigns/ffs/>
- 40) <https://junctionjournalism.com/2019/09/20/australias-deforestation-rates-at-an-all-time-high/>
- 41) <https://www.theguardian.com/environment/2018/mar/05/global-deforestation-hotspot-3m-hectares-of-australian-forest-to-be-lost-in-15-years>
- 42) <https://www.abc.net.au/news/2017-12-01/fact-check-queensland-land-clearing-brazilian-rainforest/9183596>
- 43) <https://www.abc.net.au/news/2020-01-09/indigenous-cultural-fire-burning-method-has-benefits-experts-say/11853096>
- 44) <https://indigenoux.com.au/cultural-burning-is-about-more-than-just-hazard-reduction/>

- 45) <https://www.abc.net.au/news/2020-01-18/cultural-indigenous-burn-saves-home-in-bushfire-threat-area/11876972>
- 46) <https://www.smh.com.au/national/nsw/it-s-miraculous-owners-say-cultural-burning-saved-their-property-20200103-p53okc.html>
- 47) <https://www.sbs.com.au/news/traditional-burning-reviving-indigenous-cultural-burns-for-bushfire-management>
- 48) <https://suspiciousObservers.org/>
this home page features videos explaining solar forcing, grand solar minimum, and magnetic/pole reversal
- 49) <https://www.flashover.com.au/alternate-angle-watch-firies-see-shelter-from-massive-fire-in-nsw/>
the video in this page is a **must watch** - how could a fire like this be fed by only sparse vegetation?
- 50) <https://www.foxnews.com/us/hawaii-sees-snow-from-winter-storm-for-first-time-in-state-park-on-maui>
- 51) <https://weather.com/news/news/2019-01-07-europe-heavy-snow-cold-pattern-alps-italy-greece>
- 52) <http://www.thebigwobble.org/2019/11/the-2020s-are-set-to-be-economic-and.html>
Increased cosmic rays create heavier precipitation; increased cosmic rays are associated with solar minima -not global warming
- 53) <https://www.milesresearch.co/>